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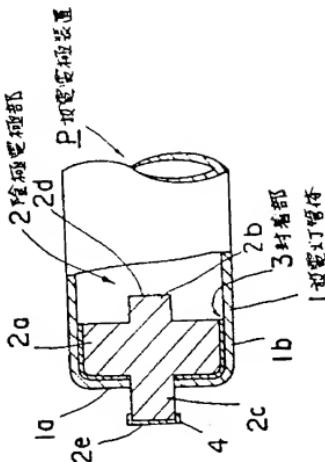
APPLICATION DATE : 02-09-87
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TITLE : DISCHARGE ELECTRODE DEVICE
FOR DISCHARGE LAMP



ABSTRACT : PURPOSE: To make a blackening phenomenon on a tube inner wall preventable as much as almost approximate to perfection by constituting a discharge electrode for a discharge lamp with a sintered body composed of a nitride or a carbide of conductive high melting point material.

CONSTITUTION: A discharge electrode device P consists of a proper discharge lamp tube body 1, a cathode electrode part 2 composed of a nitride or a carbide of conductive high melting point material set up in a double end part 1a of this tube body 1, a sealing part 3 for sealing the said cathode electrode part 2 inside the double end part of the tube body 1 and a silver connection, for example, to be attached to an outer exposure end 2e of the said cathode electrode part 2. As for material for the cathode electrode part 2, a sintered body composed of a nitride or a carbide of conductive high melting point material represented by TiN or the like is used, and the form is made up into a stepped cylindrical shape. A melting point of TiN is very high, and if the cathode electrode part 2 is manufacture with this TiN sintered body, a sputtering phenomenon is very hard to occur, so that the occurrence of a blackening phenomenon in a discharge lamp is preventable as much as almost approximate to perfection or so.

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